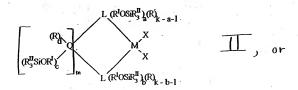
# AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the above-identified U.S. patent application.

# LISTING OF CLAIMS

Claim 1. (currently amended) A heterogeneous catalytic composition obtained by reacting a <u>nonfunctionalized</u> porous inorganic support with an alumoxane and subsequently supporting at least one metallocene compound thereon, wherein the metallocene compound is defined by formula I, II, or III:

 $(LR_k)_z[LR_{k+1}(R^lOSiR^l_3)_i]_xMX_y$ 



$$\begin{array}{c|c} & & & \\ & &$$

### wherein:

the  ${f L}$  groups are equal to or different from each other, wherein each L is selected from the group consisting of cyclopentadienyl, indenyl, tetrahydroindenyl, fluorenyl, octahydrofluorenyl, and benzoindenyl; each  ${\bf R}$  is independently hydrogen, linear or branched  ${\bf C_1}{\bf -C_{20}}$  alkyl, linear or branched  $C_3-C_{20}$  cycloalkyl, linear or branched  $C_6-C_{20}$ aryl, linear or branched  $C_3 - C_{20}$  alkenyl, linear or branched  $C_7 - C_{20}$ arylalkyl, linear or branched  $C_7$ - $C_{20}$  alkylaryl, linear or branched  $C_8$ - $C_{20}$  arylalkenyl, or a group  $SiR^{II}_3$ , wherein the  $C_1$ - $C_{20}$  alkyl, the  $\mathrm{C_3-C_{20}}$  cycloalkyl, the  $\mathrm{C_6-C_{20}}$  aryl, the  $\mathrm{C_3-C_{20}}$  alkenyl, the  $\mathrm{C_7-C_{20}}$ arylalkyl, the  $C_7 - C_{20}$  alkylaryl, and the  $C_8 - C_{20}$  arylalkenyl are optionally substituted with 1 to 10 halogen atoms; the  $\mathbf{R}^{\mathbf{I}}$  groups are equal to or different from each other, wherein each  $\mathbf{R}^{\mathbf{r}}$  is a divalent aliphatic or aromatic hydrocarbon group containing from 1 to 20 carbon atoms, optionally containing from 1 to 5 heteroatoms of groups 14 to 16 of the Periodic Table of the Elements, and optionally containing boron; wherein the  $-\mathrm{OSiR^{II}}_3$ group in the formula I is directly bonded to a carbon atom in the

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RI:
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each  $\mathbf{R^{II}}$  is independently linear or branched  $C_1$ - $C_{20}$  alkyl, linear or branched  $C_3$ - $C_{20}$  cycloalkyl, linear or branched  $C_6$ - $C_{20}$  aryl, linear or branched  $C_3$ - $C_{20}$  alkenyl, linear or branched  $C_7$ - $C_{20}$  arylalkyl, linear or branched  $C_8$ - $C_{20}$  arylalkenyl, or linear or branched  $C_7$ - $C_{20}$  alkylaryl;

each Q is independently B, C, Si, Ge, or Sn;

 ${\tt M}$  is a lanthanide, an actinide, or a metal of group 3, 4, or 10 of the Periodic Table of the Elements, and M has a valence; each  ${\tt X}$  is independently hydrogen, chlorine, bromine,  ${\tt OR}^{\rm II}$ ,  ${\tt NR}^{\rm II}_2$ ,

 $C_1-C_{20}$  alkyl, or  $C_6-C_{20}$  aryl;

## L' is N or 0;

when L is cyclopentadienyl, k is equal to 5; when L is indenyl, k is equal to 7; when L is fluorenyl or benzoindenyl, k is equal to 9; when L is tetrahydroindenyl, k is equal to 11; and when L is octahydrofluorenyl, k is equal to 17;

**z** is equal to 0, 1, or 2;

x is equal to 1, 2, or 3;

y is equal to 1, 2, or 3;

x + y + z is equal to the valence of M;

m is equal to 1, 2, 3 or 4;

a is an integer whose value ranges from 0 to k-1;

b is an integer whose value ranges from 0 to k-1;

f is an integer whose value ranges from 1 to k;

g is equal to 0 or 1;

c is equal to 0 or 1;

e is equal to 0 or 1;

a + b + c is at least 1;

 $\mathbf{a} + \mathbf{g} + \mathbf{c}$  is at least 1;

d is equal to 0, 1, or 2;

when Q is B, then c + d = 1;

when  $\mathbf{Q}$  is C, Si, Ge, or Sn, then  $\mathbf{c} + \mathbf{d} = 2$ ;

09/299,539

when  $\mathbf{L'}$  is N, then  $\mathbf{g} + \mathbf{e} = 1$ ; and when  $\mathbf{L'}$  is 0, then  $\mathbf{g} = 0$  and  $\mathbf{e} = 0$ .

Claim 2. (currently amended) The heterogeneous catalytic  $\frac{\text{cystem}}{\text{composition}}$  according to claim 1 wherein the group  $\text{R}^{\text{I}}\text{OSIR}^{\text{II}}_{3}$  is  $\text{CH}_{2}$ - $\text{CH}_{2}$ -OSiMe<sub>3</sub>,  $\text{CH}_{2}$ -O-CH<sub>2</sub>-OSiMe<sub>3</sub>,  $\text{O-CH}_{2}$ -CH<sub>2</sub>-OSiMe<sub>3</sub>,  $\text{CH}_{2}$ -O-CH<sub>2</sub>-OSiMe<sub>3</sub>,  $\text{O-CH}_{2}$ -CH<sub>2</sub>-OSiMe<sub>3</sub>,  $\text{SiMe}_{2}$ -CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-OSiMe<sub>3</sub>.

Claim 3. (currently amended) The heterogeneous catalytic system composition according to claim 1 wherein M is titanium, zirconium, or hafnium.

Claim 4. (currently amended) The heterogeneous catalytic eystem composition according to claim 1 wherein the alumoxane is represented by a formula:

 $(RA10)_n$  or  $R(R-A1-0)_mA1R_2$ ,

wherein  ${\bf R}$  is an alkyl or an aryl group containing from 1 to 20 carbon atoms;  ${\bf n}$  ranges from 1 to 40[,]; and  ${\bf m}$  ranges from 3 to 40.

Claim 5. (currently amended) The heterogeneous catalytic system composition according to claim 1 wherein the inorganic support is selected from the group consisting of silica, alumina, silica alumina, aluminum phosphates, and mixtures thereof.

Claim 6. (currently amended) The heterogeneous catalytic eystem composition according to claim 1, wherein M is comprising a transition metal, and wherein the transition metal comprises between 0.01 and 3% by weight of the catalytic composition

09/299,539

<del>catalyst system</del>.

Claim 7. (currently amended) The heterogeneous catalytic system composition according to claim 6 wherein the transition metal comprises between 0.1 and 1% by weight of the catalytic composition eatalyst system.

Claim 8. (withdrawn) A process for polymerization of alpha olefins in a slurry or in a gas phase, wherein the polymerization is catalyzed by the heterogeneous catalytic composition of claim 1.

# Claim 9. (cancelled)

Claim 10. (currently amended) The heterogeneous catalytic composition as claimed in Claim 1, wherein each  $\mathbf{R}^{\mathbf{I}}$  is linear or branched  $C_1$ - $C_{20}$  alkylene, linear or branched  $C_2$ - $C_{20}$  cycloalkylene  $C_3$ - $C_{20}$ -cycloalkylene, linear or branched  $C_6$ - $C_{20}$  arylene, linear or branched  $C_7$ - $C_{20}$  alkenyl, linear or branched  $C_7$ - $C_{20}$ , linear or branched arylalkylene, linear or branched alkylarylene, or a group  $SiR^{II}_{2}$ .

Claim 11. (previously presented) The heterogeneous catalytic composition as claimed in Claim 1, wherein  $\mathbf{R}^{\mathtt{XX}}$  is methyl, ethyl, or isopropyl.

Claim 12. (currently amended) The heterogeneous catalytic composition as claimed in Claim  $\frac{2}{2}$   $\frac{12}{12}$ , wherein  $R^{II}$  is methyl, ethyl, or isopropyl.

Claim 13. (previously presented) The heterogeneous catalytic composition as claimed in Claim 2, wherein M is titanium, zirconium, or hafnium.

Claim 14. (currently amended) The heterogeneous catalytic composition as claimed in Claim  $\underline{12}$   $\underline{13}$ , wherein M is titanium, zirconium, or hafnium.

Claim 15. (previously presented) The heterogeneous catalytic composition as claimed in Claim 2, wherein the alumoxane is represented by a formula:

$$(RA10)_n$$
 or  $R(R-A1-0)_mA1R_2$ ,

wherein R is an alkyl or an aryl group containing from 1 to 20 carbon atoms; n ranges from 1 to 40; and m ranges from 3 to 40.

Claim 16. (previously presented) The heterogeneous catalytic composition as claimed in Claim 3, wherein the alumoxane is represented by a formula:

$$(RAlO)_n$$
 or  $R(R-Al-O)_mAlR_2$ ,

wherein  ${\bf R}$  is an alkyl or an aryl group containing from 1 to 20 carbon atoms;  ${\bf n}$  ranges from 1 to 40; and  ${\bf m}$  ranges from 3 to 40.

Claim 17. (currently amended) The heterogeneous catalytic composition as claimed in Claim  $\frac{12}{2}$ , wherein the alumoxane is represented by a formula:

$$(RA10)_n$$
 or  $R(R-A1-0)_mA1R_2$ ,

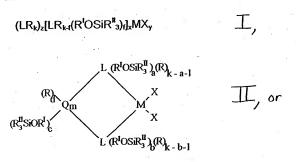
wherein  ${\bf R}$  is an alkyl or an aryl group containing from 1 to 20 carbon atoms;  ${\bf n}$  ranges from 1 to 40; and  ${\bf m}$  ranges from 3 to 40.

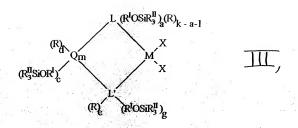
Claim 18. (previously presented) The heterogeneous catalytic composition as claimed in Claim 2, wherein the inorganic support is selected from the group consisting of silica, alumina, silica alumina, aluminum phosphates, and mixtures thereof.

# Claim 19. (cancelled)

Claim 20. (withdrawn) A process for polymerizing a monomer or a mixture of a monomer and a comonomer, wherein the process comprises: contacting the heterogeneous catalytic composition claimed in Claim 1 with the monomer or the mixture to polymerize the monomer or the mixture.

Claim 21. (currently amended) A heterogeneous catalytic system obtained by reacting a porous inorganic support selected from the group consisting of silica, alumina, silica alumina, aluminum phosphates, and mixtures thereof with an alumoxane, and then subsequently supporting at least one metallocene compound thereon, wherein the metallocene compound is defined by formula I, II, or III:





wherein:

the  ${f L}$  groups are equal to or different from each other, wherein each L is selected from the group consisting of cyclopentadienyl, indenyl, tetrahydroindenyl, fluorenyl, octahydrofluorenyl, and benzoindenyl;

each  ${f R}$  is independently hydrogen, linear or branched  ${f C_1}$ - ${f C_{20}}$  alkyl, linear or branched  $C_3-C_{20}$  cycloalkyl, linear or branched  $C_6-C_{20}$ aryl, linear or branched  $C_3 - C_{20}$  alkenyl, linear or branched  $C_7 - C_{20}$ arylalkyl, linear or branched  $C_7$ - $C_{20}$  alkylaryl, linear or branched  $\rm C_8-C_{20}$  arylalkenyl, or a group  $\rm SiR^{II}_{3},$  wherein the  $\rm C_1-C_{20}$  alkyl, the  $C_3$ - $C_{20}$  cycloalkyl, the  $C_6$ - $C_{20}$  aryl, the  $C_3$ - $C_{20}$  alkenyl, the  $C_7$ - $C_{20}$ arylalkyl, the  $C_7 - C_{20}$  alkylaryl, and the  $C_8 - C_{20}$  arylalkenyl are optionally substituted with 1 to 10 halogen atoms; the  $\mathbf{R}^{\mathbf{I}}$  groups are equal to or different from each other, wherein

each  $\mathbf{R}^{\mathbf{I}}$  is a divalent aliphatic or aromatic hydrocarbon group containing from 1 to 20 carbon atoms, optionally containing from 1 to 5 heteroatoms of groups 14 to 16 of the Periodic Table of the Elements, and optionally containing boron; wherein the -OSiR<sup>II</sup><sub>3</sub> group in the formula I is directly bonded to a carbon atom in the  $\mathbf{R}^{\mathbf{I}}$ ;

each  $\mathbf{R^{II}}$  is independently linear or branched  $C_1$ - $C_{20}$  alkyl, linear or branched  $C_3$ - $C_{20}$  cycloalkyl, linear or branched  $C_6$ - $C_{20}$  aryl, linear or branched  $C_3$ - $C_{20}$  alkenyl, linear or branched  $C_7$ - $C_{20}$  arylalkyl, linear or branched  $C_8$ - $C_{20}$  arylalkenyl, or linear or branched  $C_7$ - $C_{20}$  alkylaryl;

each Q is independently B, C, Si, Ge, or Sn;

M is a lanthanide, an actinide, or a metal of group 3, 4, or 10 of the Periodic Table of the Elements, and M has a valence;

each  $\boldsymbol{X}$  is independently hydrogen, chlorine, bromine,  $\text{OR}^{\text{II}}, \quad \text{NR}^{\text{II}}_2,$ 

 $C_1$ - $C_{20}$  alkyl, or  $C_6$ - $C_{20}$  aryl;

L' is N or 0;

.

when **L** is cyclopentadienyl, **k** is equal to 5; when **L** is indenyl, **k** is equal to 7; when **L** is fluorenyl or benzoindenyl, **k** is equal to 9; when **L** is tetrahydroindenyl, **k** is equal to 11; and when **L** is octahydrofluorenyl, **k** is equal to 17;

- ${f z}$  is equal to 0, 1, or 2;
- $\mathbf{x}$  is equal to 1, 2, or 3;
- y is equal to 1, 2, or 3;
- $\mathbf{x} + \mathbf{y} + \mathbf{z}$  is equal to the valence of  $\mathbf{M}$ ;
- m is equal to 1, 2, 3 or 4;
- a is an integer whose value ranges from 0 to k-1;
- ${\bf b}$  is an integer whose value ranges from 0 to  ${\bf k}$ -1;
- f is an integer whose value ranges from 1 to k;
- g is equal to 0 or 1;
- c is equal to 0 or 1;
  - e is equal to 0 or 1;

Page 11

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a + b + c is at least 1;
a + g + c is at least 1;
d is equal to 0, 1, or 2;
when Q is B, then c + d = 1;
when Q is C, Si, Ge, or Sn, then c + d = 2;
when L' is N, then g + e = 1; and
when L' is O, then g = 0 and e = 0.
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# Claim 22. (cancelled)

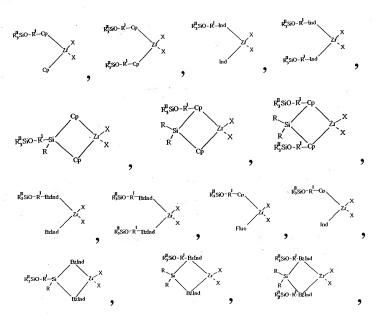
Claim 23. (currently amended) The heterogeneous catalytic composition as claimed in Claim 2, wherein the inorganic support is selected from the group consisting of silica, alumina, silica alumina, aluminum phosphates, and mixtures thereof.

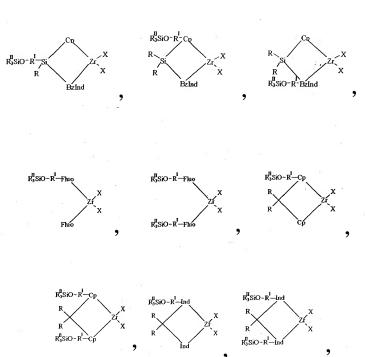
Claim 24. (previously presented) The heterogeneous catalytic composition as claimed in Claim 1, wherein m is equal to 1 or 2.

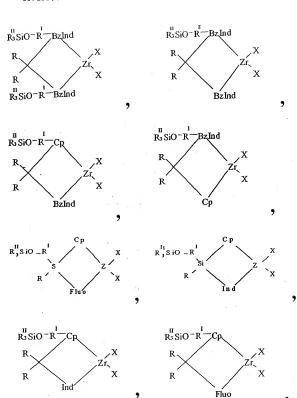
Claim 25. (previously presented) The heterogeneous catalytic system as claimed in Claim 21, wherein m is equal to 1 or 2.

Claim 26. (cancelled)

Claim 27. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein the supported metallocene compound is selected from the group consisting of:







wherein Cp is a cyclopentadienyl ring that is optionally substituted with  $C_1-C_{20}$  alkyl,  $C_3-C_{20}$  cycloalkyl,  $C_6-C_{20}$  aryl,  $C_3-C_{20}$ alkenyl,  $C_7$ - $C_{20}$  arylalkyl,  $C_8$ - $C_{20}$  arylalkenyl, or  $C_7$ - $C_{20}$  alkyaryl;

wherein Ind is an indenyl ring that is optionally substituted with  $C_1-C_{20}$  alkyl,  $C_3-C_{20}$  cycloalkyl,  $C_6-C_{20}$  aryl,  $C_3-C_{20}$  alkenyl,  $C_7-C_{20}$  $C_{20}$  arylalkyl,  $C_8-C_{20}$  arylalkenyl, or  $C_7-C_{20}$  alkyaryl;

wherein BzInd is a benzoindenyl ring that is optionally substituted with  $C_1-C_{20}$  alkyl,  $C_3-C_{20}$  cycloalkyl,  $C_6-C_{20}$  aryl,  $C_3-C_{20}$  alkenyl,  $C_7-C_{20}$  arylalkyl,  $C_8-C_{20}$  arylalkenyl, or  $C_7-C_{20}$  alkyaryl; and wherein Fluo is a fluorenyl ring that is optionally substituted with  $C_1-C_{20}$  alkyl,  $C_3-C_{20}$  cycloalkyl,  $C_6-C_{20}$  aryl,  $C_3-C_{20}$  alkenyl,  $C_7-C_{20}$  arylalkyl,  $C_8-C_{20}$  arylalkenyl, or  $C_7-C_{20}$  alkyaryl.

Claim 28. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein the supported metallocene compound is selected from the group consisting of:

bis(trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride;
(trimethylsiloxyethyl-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride;
(trimethylsiloxyethyl-cyclopentadienyl)(indenyl) zirconium dichloride;
(trimethylsiloxyethyl-cyclopentadienyl)(2-methyl-indenyl) zirconium dichloride;
(trimethylsiloxyethyl-cyclopentadienyl)(fluorenyl) zirconium dichloride;
(trimethylsiloxyethyl-cyclopentadienyl)(9-methyl-fluorenyl) zirconium dichloride;
(trimethylsiloxyethyl-cyclopentadienyl)(pentamethylcyclopentadienyl) zirconium dichloride;
[1-(2-trimethylsiloxyethyl)indenyl] (cyclopentadienyl) zirconium dichloride;
[1-(2-methylsiloxyethyl)indenyl] (pentamethyl cyclopentadienyl) zirconium dichloride;

bis(trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride; (trimethylsiloxypropyl-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride; (trimethylsiloxypropyl-cyclopentadienyl)(indenyl) zirconium dichloride; (trimethylsiloxypropyl-cyclopentadienyf)(2-methyl-indenyf) zirconium dichloride; (trimethylsiloxypropyl-cyclopentadienyf)(fluorenyf) zirconium dichloride; (trimethylsiloxypropyl-cyclopentadienyf)(9-methyl-fluorenyf) zirconium dichloride; (trimethylsiloxypropyl-cyclopentadienyf)(pentamethylcyclopentadienyf) zirconium dichloride; [1-(3-trimethylsiloxypropyf)indenyf](cyclopentadienyf) zirconium dichloride;

bis(trimethylsiloxy-methoxy-cyclopentadienyl) zirconium dichloride; (trimethylsiloxy-methoxy-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride; (trimethylsiloxy-methoxy-cyclopentadienyl)(indenyl) zirconium dichloride; (trimethylsiloxy-methoxy-cyclopentadienyl)(2-methyl-indenyl) zirconium dichloride; (trimethylsiloxy-methoxy-cyclopentadienyl)(fluorenyl) zirconium dichloride; (trimethylsiloxy-methoxy-cyclopentadienyl)(9-methyl-fluorenyl) zirconium dichloride; (trimethylsiloxy-methoxy-cyclopentadienyl)(pentamethylcyclopentadienyl) zirconium dichloride; (trimethylsiloxy-methoxy-cyclopentadienyl)(pentamethylcyclopentadienyl) zirconium dichloride;

bis(trimethylsiloxy-ethoxy-cyclopentadienyl) zirconium dichloride;
(trimethylsiloxy-ethoxy-cyclopentadienyl)(cyclopentadienyl) zirconium-dichloride;
(trimethylsiloxy-ethoxy-cyclopentadienyl)(1-indenyl) zirconium dichloride;
(trimethylsiloxy-ethoxy-cyclopentadienyl)(2-methyl-indenyl) zirconium dichloride;
(trimethylsiloxy-ethoxy-cyclopentadienyl)(fluorenyl) zirconium dichloride;
(trimethylsiloxy-ethoxy-cyclopentadienyl)(9-methyl-fluorenyl) zirconium dichloride;
(trimethylsiloxy-ethoxy-cyclopentadienyl)(pentamethylcyclopentadienyl) zirconium dichloride;

bis(trimethylsiloxy-ethyl-(dimethyl)silyl-cyclopentadienyl) zirconium dichloride; (trimethylsiloxy-ethyl-(dimethyl)silyl-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride; (trimethylsiloxy-propyl-(dimethyl)silyl-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride;

(trimethytsiloxy-ethyl-(dimethyf)silyl-cydopentadienyl)(indenyl) zirconium dichloride; (trimethytsiloxy-ethyl-(dimethyf)silyl-cydopentadienyl)(2-methyl-indenyl) zirconium dichloride; (trimethyfsiloxy-ethyl-(dimethyf)silyl-cydopentadienyl)(fluorenyl) zirconium dichloride; (trimethyfsiloxy-ethyl-(dimethyf)silyl-cydopentadienyl)(9-methyl-fluorenyl) zirconium dichloride;

(trimethylsiloxy-ethyl-(dimethyl)silyl-cydopentadienyl)(pentamethylcyclopentadienyl) zirconium dichloride,

bis(trimethylsiloxy-(dimethyl)silyl-cyclopentadienyl) zirconium dichloride;

(trimethylsiloxy-(dimethyl)silyl-cyclopentadienyl)(cyclopentadienyl) zirconium dichloride; dimethylsilandiylbis(2-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride; dimethylsilandiylbis(3-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride; dimethylsilandiyl(3-trimethylsiloxyethyl-cyclopentadienyl) (ciclopentadienyl)zirconium dichloride; dimethylsiloxyethyl-cyclopentadienyl) (ciclopentadienyl)zirconium dichloride;

dimethylsilandiyl(2-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride; dimethylsilandiyl(3-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride; dimethylsilandiyl(1-(3-trimethylsiloxyethyl-indenyl))(ciclopentadienyl) zirconium dichloride; dimethylsilandiyl(2-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

 $dimethyl silandiyl (3-trimethyl siloxyethyl-cyclopentadienyl) (1-(2-methyl-indenyl))\ zirconium\ dichloride;$ 

dimethylsilandiyl(2-trimethylsiloxyethyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(3-trimethylsiloxyethyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(2-trimethylsiloxyethyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

 $dimethy/sit and iy/(3-trimethy/siloxyethy/-cyclopenta dieny/)(9-(2-methy/-fluoreny/))\ zirconium\ dichloride;$ 

dimethytsilandiyl(3-trimethytsiloxyethyl-cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium dichloride;

dimethylsilandiylbis(2-trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride; dimethylsilandiylbis(3-trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride; dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl) (ciclopentadienyl) zirconium dichloride;

dimethylsilandiyl(1-(3-trimethylsiloxypropyl-indenyl)) (ciclopentadienyl) zirconium dichloride; dimethylsilandiyl(2-trimethylsiloxypropyl-cyclopentadienyl)(1-indenyl) zirconium dichloride; dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl)(1-indenyl) zirconium dichloride; dimethylsilandiyl(2-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(2-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; dimethylsilandiy(3-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(2-trimethylsiloxypropyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiyl(3-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium dichloride;

dimethylsilandiylbis(2-trimethylsiloxy-methoxy-cyclopentadienyl) zirconium dichloride; dimethylsilandiylbis(3-trimethylsiloxy-methoxy-cyclopentadienyl) zirconium dichloride; dimethylsilandiyl(2-trimethylsiloxy-methoxy-cyclopentadienyl)(1-indenyl) zirconium dichloride;

dimethylsilandiyl(3-trimethylsiloxy-methoxy-cyclopentadienyl)(1-indenyl) zirconium dichloride;

dimethylsilandiyl(2-trimethylsiloxy-methoxy-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(3-trimethylsiloxy-methoxy-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(2-trimethylsiloxy-methoxy-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

dimethylsilandiyl(3-trimethylsiloxy-methoxy-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

dimethylsilandyl(2-trimethylsiloxy-methoxy-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride,

dimethylsilandsyl(3-trimethylsiloxy-methoxy-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiylbis(2-trimethylsiloxy-ethoxy-cyclopentadienyl) zirconium dichloride; dimethylsilandiylbis(3-trimethylsiloxy-ethoxy-cyclopentadienyl) zirconium dichloride;

dimethylsilandiyl(2-trimethylsiloxy-ethoxy-cyclopentadienyl)(1-indenyl) zirconium dichloride; dimethylsilandiy(3-trimethylsiloxy-ethoxy-cyclopentadienyl)(1-indenyl) zirconium dichloride; dimethylsilandiyl(2-trimethylsiloxy-ethoxy-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride; dimethylsilandiyl(2-trimethylsiloxy-ethoxy-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(3-tnmethylsiloxy-ethoxy-cyclopentadienyl)(1-{2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(2-trimethylsiloxy-ethoxy-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(3-trimethylsiloxy-ethoxy-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(2-trimethylsiloxy-ethoxy-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium

 $dimethyl silandiyl (3-trimethyl siloxy-ethoxy-cyclopenta dienyl) (9-(2-methyl-fluorenyl))\ zirconium$ dichloride:

dimethytsilandiylbis(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium dichloride:

dimethytsilandiylbis(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium

dimethylsilandiyl(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

dimethylsilandiyl(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

dimethyl silandiyl (2-(trimethyl siloxy-ethyl-(dimethyl) silyl)-cyclopenta dienyl) (1-(2-methyl-dimethyl siloxy-ethyl-(dimethyl silyl))-cyclopenta dienyl) (1-(2-methyl-dimethyl silyl)-cyclopenta dienyl) (1-(2-methyl-dimeindenyf)) zircohium dichloride;

dimethylsitandiyl(3-(trimethylsitoxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methylindenyl)) zirconium dichloride;

 $\label{thm:conditional} \emph{dimethyl} iand \emph{iyl} (2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) (9-fluorenyl) \\$ zirconium dichloride;

dimethyl silandiyl (3-(trimethyl siloxy-ethyl-(dimethyl) silyl)-cyclopentadienyl) (9-fluorenyl)zirconium dichloride;

dimethylsilandiyl(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-(2-methylfluorenyl)) zirconium dichloride;

dimethyl silandiyl (3-(trimethyl siloxy-ethyl-(dimethyl) silyl)-cyclopentadienyl) (9-(2-methyl-dimethyl siloxy-ethyl-(dimethyl silyl))-cyclopentadienyl) (9-(2-methyl-dimethyl silyl)-cyclopentadienyl) (9-(2-methyl-dimethyl)-cyclopentadienyl) (9-(2-methyl-dimethyl silyl)-cyclopentadienyl) (9-(2-methyl-dimethyl silyl)-cyclopentadienyl) (9-(2-methyl-dimethyl silyl)-cyclopentadienyl) (9-(2-methyl-dimethyl silyl)-cyclopentadienyl) (9-(2-methyl-dimethyl)-cyclopentadienyl) (9-(2

fluorenyl)) zirconium dichloride; dimethylsilandiyl(3-(trimethylsiloxy-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

dimethylsilandiyl(3-(trimethylsiloxy-(dimethyl)silyl)-cyclopentadienyl)(1-(2-

methylbenzoindenyl)) zirconium dichloride; dimethylsilandiylbis(1-(3-trimethylsiloxy-(dimethyl)silyl)-indenyl) zirconium dichloride;

dimethylsilandiyl(1-(3-trimethylsiloxy-(dimethyl)silyl)-indenyl) (1-indenyl)zirconium dichloride;

isopropylidenebis(2-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride;

isopropylidenebis(3-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride;

isopropylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride; isopropylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride; isopropylidene(1-(3-trimethylsiloxyethyl-indenyi)(ciclopentadienyl) zirconium dichloride; isopropylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyli)) zirconium dichloride;

isopropylidene(2-trimethylsiloxyethyl-cydopentadienyl)(9-fluorenyl) zirconium dichlonde; isopropylidene(3-trimethylsiloxyethyl-cydopentadienyl)(9-fluorenyl) zirconium dichloride; isopropylidene(2-trimethylsiloxyethyl-cydopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(9-{2-methyl-fluorenyl}) zirconium dichloride;

isopropylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(1-{2methylbenzoindenyl)) zirconium dichloride;

isopropylidenebis (2-trimethytsiloxypropyl-cyclopentadienyl) zirconium dichloride; isopropylidenebis (3-trimethytsiloxypropyl-cyclopentadienyl) zirconium dichloride; isopropylidene(2-trimethytsiloxypropyl-cyclopentadienyl) (1-indenyl) zirconium dichloride; isopropylidene(3-trimethytsiloxypropyl-cyclopentadienyl) (1-indenyl) zirconium dichloride; isopropylidene(1-(3-trimethytsiloxypropyl-indenyl)(ciclopentadienyl) zirconium dichloride; isopropylidene(2-trimethytsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; isopropylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; isopropylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(9-{2-methyl-fluorenyl)) zirconium dichloride;

 $is opropylidene (3-trimethylsiloxypropyl-cyclopentadienyl) (1-(2methylbenzoindenyl)) \ zirconium \ dichloride;$ 

isopropylidenebis(2-(trimethylsiloxy-methoxy)-cyclopentadienyl) zirconium dichlonde; isopropylidenebis(3-(trimethylsiloxy-methoxy)-cyclopentadienyl) zirconium dichlonde; isopropylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-indenyl) zirconium dichlonde; isopropylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-indenyl) zirconium dichlonde; isopropylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride.

isopropylidene(3-{trimethylsiloxy-methoxy}-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene (2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride,

isopropylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

isopropylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidene(3-{trimethylsiloxy-methoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(2-(trimethylsiloxy-ethoxy)-cyclopentadienyf) zirconium dichloride; isopropylidenebis(3-(trimethylsiloxy-ethoxy)-cyclopentadienyf) zirconium dichloride; isopropylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyf)(1-indenyf) zirconium dichloride; isopropylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyf)(1-indenyf) zirconium dichloride; isopropylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyf)(1-(2-methyl-indenyf)) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(2-(trimethytsiloxy-ethoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; isopropylidene(3-(trimethytsiloxy-ethoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; isopropylidene(2-(trimethytsiloxy-ethoxy)-cyclopentadienyl)(9-(2-methyt-fluorenyl)) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium dichloride;

isopropylidenebis(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium dichloride;

isopropylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

isopropylidene(3-{tnmethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium dichloride:

isopropylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methylindenyl)) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-fluorenyl)

zirconium dichloride; isopropylidene(3-(trimethytsiloxy-ethyl-(dimethyt)silyt)-cyclopentadienyt)(9-fluorenyt) zirconium dichloride;

isopropylidene(2-(trimethytsiloxy-ethyl-(dimethyt)sityl)-cyclopentadienyt)(9-(2-methylfluorenyt)) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-(2-methylfluorenyl)) zirconium dichloride;

isopropylidene(3-{trimethylsiloxy-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

isopropylidene(3-(trimethylsiloxy-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium dichloride;

ethylidenebis(2-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride; ethylidenebis(3-trimethylsiloxyethyl-cyclopentadienyl) zirconium dichloride; ethylidene(3-trimethylsiloxyethyl-cyclopentadienyl) (cyclopentadienyl) zirconium dichloride; ethylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride; ethylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(1-indenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxyethyl-indenyl))(ciclopentadienyl) zirconium dichloride; ethylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride:

ethylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; ethylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; ethylidene(2-trimethylsiloxyethyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidene(3-trimethylsiloxyethyl-cyclopentadienyl)(9-{2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(2-trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride; ethylidenebis(3-trimethylsiloxypropyl-cyclopentadienyl) zirconium dichloride; ethylidene(3-trimethylsiloxypropyl-cyclopentadienyl) (cyclopentadienyl) zirconium dichloride; ethylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(1-indenyl) zirconium dichloride; ethylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(1-indenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxypropyl-indenyl))(ciclopentadienyl) zirconium dichloride; ethylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; ethylidene(3-trimethylsiloxypropyl-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; ethylidene(2-trimethylsiloxypropyl-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

 $ethylidene (3-trimethylsiloxypropyl-cyclopentadienyl) (9-(2-methyl-fluorenyl))\ zirconium\ dichloride;$ 

ethylidenebis(2-(trimethylsiloxy-methoxy)-cyclopentadienyl) zirconium dichloride; ethylidenebis(3-(trimethylsiloxy-methoxy)-cyclopentadienyl) zirconium dichloride; ethylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride; ethylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride; ethylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium

ethylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; ethylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; ethylidene(2-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidene(3-(trimethylsiloxy-methoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl) zirconium dichloride; ethylidenebis(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl) zirconium dichloride; ethylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

## 09/299,539

ethylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-indenyl) zirconium dichloride; ethylidene(2-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(2-{trimethylsiloxy-ethoxy}-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; ethylidene(3-{trimethylsiloxy-ethoxy}-cyclopentadienyl)(9-fluorenyl) zirconium dichloride; ethylidene(2-{trimethylsiloxy-ethoxy}-cyclopentadienyl)(9-{2-methyl-fluorenyl)) zirconium dichloride;

ethylidene(3-(trimethylsiloxy-ethoxy)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium dichloride; ethylidenebis(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl) zirconium dichloride; ethylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium dichloride;

ethylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-indenyl) zirconium

dichloride; ethylidene(2-{trimethylsiloxy-ethyl-{dimethyl}silyl}-cyclopentadienyl)(1-{2-methyl-indenyl}) zirconium dichloride;

ethylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(1-(2-methyl-indenyl)) ziroonium dichloride:

zirconium dichloride; ethylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-fluorenyl) zirconium ethylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-fluorenyl) zirconium

dichloride; ethylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-fluorenyl) zirconium

dichloride; ethylidene(2-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) .zirconium dichloride;

ethylidene(3-(trimethylsiloxy-ethyl-(dimethyl)silyl)-cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiylbis(1-(2-trimethylsiloxyethyl-indenyl)) zirconium dichloride; dimethylsilandiylbis(1-(3-trimethylsiloxyethyl-indenyl)) zirconium dichloride; dimethylsilandiyl(1-(2-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride; dimethylsilandiyl(1-(3-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride;

No. 1 To The State Significant

dimethylsilandiyl(1-(2-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(1-(3-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(1-(2-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(1-(3-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(1-(2-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

 $dimethyl silandiyl (1-(3-trimethyl siloxyethyl-indenyl)) (9-(2-methyl-fluorenyl))\ zirconium\ dichloride;$ 

dimethylsilandiylbis(1-{2-trimethylsiloxypropyl-indenyli)) zirconium dichloride; dimethylsilandiylbis(1-{3-trimethylsiloxypropyl-indenyli)) zirconium dichloride; dimethylsilandiyl(1-{2-trimethylsiloxypropyl-indenyli))(1-indenyl) zirconium dichloride; dimethylsilandiyl(1-{3-trimethylsiloxypropyl-indenyli))(1-indenyl) zirconium dichloride; dimethylsilandiyl(1-{2-trimethylsiloxypropyl-indenyli))(1-{2-methyl-indenyli)) zirconium dichloride;

dimethylsilandiyl(1-{3-trimethylsiloxypropyl-indenyl))(1-{2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(1-(2-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(1-(3-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(1-(2-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiyl(1-(3-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiylbis (1-(2-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride; dimethylsilandiylbis (1-(3-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride; dimethylsilandiyl(1-(2-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride; dimethylsilandiyl(1-(3-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride; dimethylsilandiyl(1-(2-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(1-(3-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsilandiyl(1-(2-trimethylsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride;

dimethylsilandiyl(1-(3-trimethylsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(1-(2-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

 $dimethyl silandiyl (1-\{3-trimethyl siloxy-methoxy-indenyli) (9-\{2-methyl-fluorenyli))\ zirconium\ dichloride;$ 

dimethylsilandiylbis(1-{2-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride; dimethylsilandiylbis(1-{3-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride; dimethylsilandiyl(1-{2-trimethylsiloxy-ethoxy-indenyl))(1-indenyl) zirconium dichloride; dimethylsilandiyl(1-{3-trimethylsiloxy-ethoxy-indenyl))(1-indenyl) zirconium dichloride; dimethylsilandiyl(1-{2-trimethylsiloxy-ethoxy-indenyl))(1-{2-methyl-indenyl)) zirconium dichloride; dimethylsilandiyl(1-{2-trimethylsiloxy-ethoxy-indenyl))(1-{2-methyl-indenyl)) zirconium dichloride;

dimethytsilandiyl(1-(3-trimethytsiloxy-ethoxy-indenyl))(1-(2-methyt-indenyl)) zirconium richloride:

dimethylsilandiyl(1-(2-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride; dimethylsilandiyl(1-(2-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiyl(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilandiylbis(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl)) zirconium dichloride;  $dimethyl silandiylbis (1-(3-trimethyl siloxy-ethyl-(dimethyl) silyl-indenyl))\ zirconium\ dichloride;$ dimethylsilandiyl(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium dichloride: dimethylsilandiyl(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium

dichloride;

dimethyl silandiyl (1-(2-trimethyl siloxy-ethyl-(dimethyl) silyl-indenyi)) (1-(2-methyl-indenyi))zirconium dichloride;

dimethyl silandiyl (1-(3-trimethyl siloxy-ethyl-(dimethyl) silyl-indenyl)) (1-(2-methyl-indenyl)) (1-(2-methyl-indenyl)) (1-(3-trimethyl siloxy-ethyl-(dimethyl) silyl-indenyl)) (1-(3-trimethyl silyl-indenyl)) (1-(3-trimezirconium dichloride;

 $dimethyl sit and \emph{iy} (1-(2-trimethyl siloxy-ethyl-(dimethyl) sityl-indenyl)) (9-fluorenyl)\ zirconium$  $dimethyls il and iyl (1-(3-trimethylsiloxy-ethyl-(dimethyl) silyl-indenyl)) (9-fluorenyl)\ zirconium$ dichloride;

dimethyl silandiyl (1-(2-trimethyl siloxy-ethyl-(dimethyl) silyl-indenyl)) (9-(2-methyl-fluorenyl)) (1-(2-trimethyl siloxy-ethyl-(dimethyl) silyl-indenyl)) (1-(2-trimethyl) silyl-indenyl) (1-(2-trimethyl) silyl-indenyl)zirconium dichloride;

dimethyl silandiyl (1-(3-trimethyl siloxy-ethyl-(dimethyl) silyl-indenyl)) (9-(2-methyl-fluorenyl)) (1-(3-trimethyl siloxy-ethyl-(dimethyl) silyl-indenyl)) (1-(3-trimethyl siloxy-ethyl-(dimethyl siloxy-ethyl-(dimethyl) silyl-indenyl)) (1-(3-trimethyl siloxy-ethyl-(dimethyl siloxy-ethyl-(dimethyl-(dimethyl-(dimethyl siloxy-ethyl-(dimzirconium dichloride:

isopropylidenebis(1-(2-trimethylsiloxyethyl-indenyl)) zirconium dichloride; isopropylidenebis(1-(3-trimethylsiloxyethyl-indenyl)) zirconium dichloride; isopropylidene(1-(2-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride; isopropylidene(1-(3-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride; isopropylidene(1-(2-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichlonde; isopropylidene(1-(3-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride; isopropylidene(1-(2-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride; isopropylidene(1-(3-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride; isopropylidene(1-(2-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride; isopropylidene(1-(3-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium

dichloride;

isopropylidenebis(1-(2-trimethylsiloxypropyl-indenyl)) zirconium dichloride; isopropylidenebis(1-(3-trimethylsiloxypropyl-indenyl)) zirconium dichloride; isopropylidene(1-(2-trimethylsiloxypropyl-indenyl))(1-indenyl) zirconium dichloride; isopropylidene(1-(3-trimethylsiloxypropyl-indenyl))(1-indenyl) zirconium dichloride; isopropylidene(1-(2-trimethylsiloxypropyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxypropyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(1-(2-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride; isopropylidene(1-(3-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride; isopropylidene(1-(2-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(1-(2-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride; isopropylidenebis(1-(3-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride;

isopropylidene(1-{2-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride; isopropylidene(1-{3-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride; isopropylidene(1-{2-trimethylsiloxy-methoxy-indenyl))(1-{2-methyl-indenyl)} zirconium dichloride.

dichloride; isopropylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride

isopropylidene(1-(2-trimethyfsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride; isopropylidene(1-(3-trimethyfsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride; isopropylidene(1-(2-trimethyfsiloxy-methoxy-indenyl))(9-(2-methyf-fluorenyl)) zirconium dichloride:

 $is opropylidene (1-\{3-trimethylsiloxy-methoxy-indenyl)) (9-\{2-methyl-fluorenyl))\ zirconium\ dichloride;$ 

isopropylidenebis(1-(2-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride;

isopropylidenebis(1-(3-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride;

isopropylidene(1-(2-trimethytsiloxy-ethoxy-indenyt))(1-indenyt) zirconium dichloride; isopropylidene(1-(3-trimethytsiloxy-ethoxy-indenyt))(1-indenyt) zirconium dichloride; isopropylidene(1-(2-trimethytsiloxy-ethoxy-indenyt))(1-(2-methyt-indenyt)) zirconium

dichloride; isopropylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(1-(2-trimethytsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride; isopropylidene(1-(3-trimethytsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride; isopropylidene(1-(2-trimethytsiloxy-ethoxy-indenyl))(9-(2-methyt-fluorenyl)) zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl)) zirconium dichlonde; isopropylidenebis(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl)) zirconium dichloride; isopropylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium dichloride:

isopropylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium dichloride;

isopropylidene(1-(2-tnmethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-(2-methyl-indenyl))

zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-(2-methyl-indenyl))

zirconium dichloride;

isopropylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)sityl-indenyl))(9-fluorenyl) zirconium

dichlonde; isopropylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-fluorenyl) zirconium

dichloride; isopropylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(1-(2-trimethylsiloxyethyl-indenyl)) zirconium dichlonde; ethylidenebis(1-(3-trimethylsiloxyethyl-indenyl)) zirconium dichloride; ethylidene(1-(2-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxyethyl-indenyl))(1-indenyl) zirconium dichloride; ethylidene(1-(2-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxyethyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride; ethylidene(1-(2-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxyethyl-indenyl))(9-fluorenyl) zirconium dichloride; ethylidene(1-(2-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxyethyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(1-(2-trimethylsiloxypropyl-indenyl)) zirconium dichloride; ethylidenebis(1-(3-trimethylsiloxypropyl-indenyl)) zirconium dichloride; ethylidene(1-(2-trimethylsiloxypropyl-indenyl))(1-indenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxypropyl-indenyl))(1-indenyl) zirconium dichloride; ethylidene(1-(2-trimethylsiloxypropyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxypropyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride; ethylidene(1-(2-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxypropyl-indenyl))(9-fluorenyl) zirconium dichloride; ethylidene(1-(2-trimethylsiloxypropyt-indenyl))(9-(2-methyl-fluorenyl) zirconium dichloride; dichloride:

ethylidene(1-(3-trimethylsiloxypropyl-indenyl))(9-(2-methyl-fluorenyl) zirconium dichloride; dichloride:

ethylidenebis(1-(2-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride, ethylidenebis(1-(3-trimethylsiloxy-methoxy-indenyl)) zirconium dichloride, ethylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(1-indenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride; ethylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(9-fluorenyl) zirconium dichloride; ethylidene(1-(2-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-methoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(1-(2-trimethytsiloxy-ethoxy-indenyl)) zirconium dichloride; ethylidenebis(1-(3-trimethylsiloxy-ethoxy-indenyl)) zirconium dichloride; ethylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(1-indenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(1-indenyl) zirconium dichloride; ethylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-fluorenyl) zirconium dichloride; ethylidene(1-(2-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-ethoxy-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyli) zirconium dichloride; ethylidenebis(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyli) zirconium dichloride; ethylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium dichloride; ethylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-indenyl) zirconium dichloride; ethylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(1-(2-methyl-indenyl)) zirconium dichloride:

ethylidene(1-(2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-fluorenyl) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-fluorenyl) zirconium dichloride:

ethytidene(1-{2-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-{2-methyl-fluorenyl)) zirconium dichloride;

ethylidene(1-(3-trimethylsiloxy-ethyl-(dimethyl)silyl-indenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride:

dimethylsitylenebis(9-(1-trimethylsiloxyethyl-fluorenyl)) zirconium dichloride; dimethylsitylene(9-(1-trimethylsiloxyethyl-fluorenyl))(cyclopentadienyl) zirconium dichloride; dimethylsitylene(9-(1-trimethylsiloxyethyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsitylene(9-(1-trimethylsiloxyethyl-fluorenyl))(1-indenyl) zirconium dichloride; dimethylsitylene(9-(1-trimethylsiloxyethyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsitylenebis(9-(1-trimethylsiloxypropyl-fluorenyl)) zirconium dichloride; dimethylsitylene(9-(1-trimethylsiloxypropyl-fluorenyl)(9-fluorenyl) zirconium dichloride; dimethylsitylene(9-(1-trimethylsiloxypropyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsitylene(9-(1-trimethylsiloxypropyl-fluorenyl))(1-indenyl) zirconium dichloride; dimethylsitylene(9-(1-trimethylsiloxypropyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsilylenebis(9-(1-trimethylsiloxy-methoxy-fluorenyl)) zirconium dichloride; dimethylsilylene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(9-fluorenyl) zirconium dichloride; dimethylsilylene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

dimethylsitylene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(1-indenyl) zirconium dichloride; dimethylsitylene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

dimethylsitylenebis(9-(1-trimethylsiloxy-ethoxy-fluorenyl)) zirconium dichloride; dimethylsitylene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(9-fluorenyl) zirconium dichloride; dimethylsitylene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride: dimethylsilylene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(1-indenyl) zirconium dichloride; dimethylsilylene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride:

dimethylsitylenebis(9-(1-trimethylsiloxy-ethyl-(dimethyl)sityl-fluorenyl)) zirconium dichloride; dimethylsitylene(9-(1-trimethylsiloxy-ethyl-(dimethyl)sityl-fluorenyl))(9-fluorenyl) zirconium dichloride:

dimethylsilylene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride,

dimethylsilylene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-indenyl) zirconium dichloride:

dimethylsilylene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(9-(1-trimethylsiloxyethyl-fluorenyfl) zirconium dichloride; isopropylidene(9-(1-trimethylsiloxyethyl-fluorenyfl)(9-fluorenyf) zirconium dichloride; isopropylidene(9-(1-trimethylsiloxyethyl-fluorenyfl)(1-(2-methyl-indenyfl)) zirconium dichloride:

isopropylidene(9-(1-trimethylsiloxyethyl-fluorenyl))(1-indenyl) zirconium dichloride; isopropylidene(9-(1-trimethylsiloxyethyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(9-(1-trimethylsiloxypropyl-fluorenyf)) zirconium dichloride; isopropylidene(9-(1-trimethylsiloxypropyl-fluorenyf))(9-fluorenyf) zirconium dichloride; isopropylidene(9-(1-trimethylsiloxypropyl-fluorenyf))(1-(2-methyl-indenyf)) zirconium dichloride;

isopropylidene(9-(1-trimethylsiloxypropyl-fluorenyf))(1-indenyf) zirconium dichloride; isopropylidene(9-(1-trimethylsiloxypropyl-fluorenyf))(9-(2-methyl-fluorenyf)) zirconium dichloride:

isopropylidenebis(9-(1-trimethylsiloxy-methoxy-fluorenyli)) zirconium dichloride; isopropylidene(9-(1-trimethylsiloxy-methoxy-fluorenyli)(9-fluorenyli) zirconium dichloride; isopropylidene(9-(1-trimethylsiloxy-methoxy-fluorenyli)(1-(2-methyl-indenyli)) zirconium dichloride;

isopropylidene(9-(1-trimethylsiloxy-methoxy-fluorenyl))(1-indenyl) zirconium dichloride;

isopropylidene(9-(1-Irimethylsiloxy-methoxy-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(9-{1-trimethylsiloxy-ethoxy-fluorenyl)) zirconium dichloride; isopropylidene(9-{1-trimethylsiloxy-ethoxy-fluorenyl))(9-fluorenyl) zirconium dichloride; isopropylidene(9-{1-trimethylsiloxy-ethoxy-fluorenyl))(1-{2-methyl-indenyl)) zirconium dichloride;

isopropylidene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(1-indenyl) zirconium dichloride; isopropylidene(9-(1-trimethylsiloxy-ethoxy-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

isopropylidenebis(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl)) zirconium dichloride; isopropylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-fluorenyl) zirconium dichloride;

isopropylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

isopropylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-indenyl) zirconium dichloride;

isopropylidene(9-{1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(9-(1-trimethylsiloxyethyl-fluorenyf)) zirconium dichloride; ethylidene(9-(1-trimethylsiloxyethyl-fluorenyf))(9-fluorenyf) zirconium dichloride; ethylidene(9-(1-trimethylsiloxyethyl-fluorenyf))(1-(2-methyl-indenyf)) zirconium dichloride; ethylidene(9-(1-trimethylsiloxyethyl-fluorenyf))(1-indenyf) zirconium dichloride; ethylidene(9-(1-trimethylsiloxyethyl-fluorenyf))(9-(2-methyl-fluorenyf)) zirconium dichloride;

ethylidenebis(9-(1-trimethylsitoxypropyl-fluorenyl)) zirconium dichloride; ethylidene(9-(1-trimethylsitoxypropyl-fluorenyl))(9-fluorenyl) zirconium dichloride; ethylidene(9-(1-trimethylsitoxypropyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride; ethylidene(9-(1-trimethylsitoxypropyl-fluorenyl))(1-indenyl) zirconium dichloride, ethylidene(9-(1-trimethylsitoxypropyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride,

ethylidenebis(9-(1-trimethylsiloxy-methoxy-fluorenyl)) zirconium dichloride;

ethylidene(9-{1-trimethylsiloxy-methoxy-fluorenyl))(9-fluorenyl) zirconium dichloride; ethylidene(9-{1-trimethylsiloxy-methoxy-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride:

ethylidene(9-{1-trimethylsiloxy-methoxy-fluorenyl))(1-indenyl) zirconium dichloride; ethylidene(9-{1-trimethylsiloxy-methoxy-fluorenyl))(9-{2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(9-(1-trimethylsiloxy-ethoxy-fluorenyl)) zirconium dichloride; ethylidene(9-{1-trimethylsiloxy-ethoxy-fluorenyl))(9-fluorenyl) zirconium dichloride; ethylidene(9-{1-trimethylsiloxy-ethoxy-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride; ethylidene(9-{1-trimethylsiloxy-ethoxy-fluorenyl))(1-indenyl) zirconium dichloride; ethylidene(9-{1-trimethylsiloxy-ethoxy-fluorenyl))(9-{2-methyl-fluorenyl)) zirconium dichloride;

ethylidenebis(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl)) zirconium dichloride; ethylidene(9-{1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-fluorenyl) zirconium dichloride;

ethylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-(2-methyl-indenyl)) zirconium dichloride;

ethylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(1-indenyl) zirconium dichloride:

ethylidene(9-(1-trimethylsiloxy-ethyl-(dimethyl)silyl-fluorenyl))(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxyethyl(methyl)silandiylbis(cyclopentadienyl) zirconium dichloride; trimethylsiloxyethyl(methyl)silandiylbis(9-fluorenyl) zirconium dichloride; trimethylsiloxyethyl(methyl)silandiyl(cyclopentadienyl)(1-indenyl) zirconium dichloride; trimethylsiloxyethyl(methyl)silandiyl(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxyethyl(methyl)silandiyl(cyclopentadienyl)(9-fluorenyl) zirconium dichloride; trimethylsiloxyethyl(methyl)silndiyl(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride:

trimethylsiloxyethyl(methyl)silandiylbis(1-indenyl) zirconium dichloride; trimethylsiloxyethyl(methyl)silandiyl(cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium dichloride;

trimethylsiloxyethyl(methyl)silandiylbis(1-(2-methylbenzoindenyl)) zirconium dichloride;

trimethylsiloxypropyl(methyl)silandiylbis(cyclopentadienyl) zirconium dichloride; trimethylsiloxypropyl(methyl)silandiylbis(9-fluorenyl) zirconium dichloride;

trimethylsiloxypropyl(methyl)silandiyl(cyclopentadienyl)(1-indenyl) zirconium dichloride; trimethylsiloxypropyl(methyl)silandiyl(cyclopentadienyl)(1-{2-methyl-indenyl)) zirconium dichloride:

trimethylsiloxypropyl(methyl)silandiyl(cyclopentadienyl)(9-fluorenyl) zirconium dichloride; trimethylsiloxypropyl(methyl)silandiyl(cyclopentadienyl)(9-{2-methyl-fluorenyl)) zirconium dichloride:

trimethylsiloxypropyl(methyl)silandiylbis(1-indenyl) zirconium dichloride; trimethylsiloxypropyl(methyl)silandiyl(cyclopentadienyl)(1-(2-methylbenzoindenyl)) zirconium dichloride:

trimethylsiloxy-methoxy(methyl)silandiylbis(cyclopentadienyl) zirconium dichloride; trimethylsiloxy-methoxy(methyl)silandiyl(cyclopentadienyl)(1-indenyl) zirconium dichloride; trimethylsiloxy-methoxy(methyl)silandiyl(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride:

trimethylsiloxy-methoxy(methyl)silandiyl(cyclopentadienyl)(9-fluorenyl) zirconium dichloride; trimethylsiloxy-methoxy(methyl)silandiyl(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride:

trimethylsiloxy-ethoxy(methyl)silandiylbis(cyclopentadienyl) zirconium dichloride; trimethylsiloxy-ethoxy(methyl)silandiyl(cyclopentadienyl)(1-indenyl) zirconium dichloride; trimethylsiloxy-ethoxy(methyl)silandiyl(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride:

trimethylsiloxy-ethoxy(methyl)silandiyl(cyclopentadienyl)(9-fluorenyl) zirconium dichlonde; trimethylsiloxy-ethoxy(methyl)silandiyl(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichlonde:

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiylbis(cyclopentadienyl) zirconium dichloride

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl(cyclopentadienyl)(1-indenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride:

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl(cyclopentadienyl)(9-(2-methyl-fluorenyl))

trimethylsiloxy-methoxy(methyl)methylidenebis(cyclopentadienyl) zirconium dichloride; trimethylsiloxy-methoxy(methyl)methylidene(cyclopentadienyl)(1-indenyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylidene(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylidene(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylidene(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylidenebis(cyclopentadienyl) zirconium dichloride; trimethylsiloxy-ethoxy-(methyl)methylidene(cyclopentadienyl)(1-indenyl) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylidene(cyclopentadienyl)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylidene(cyclopentadienyl)(9-fluorenyl) zirconium dichloride:

trimethylsiloxy-ethoxy-(methyl)methylidene(cyclopentadienyl)(9-(2-methyl-fluorenyl)) zirconium dichloride:

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidenebis(cyclopentadienyl) zirconium dichloride:

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidene(cyclopentadienyl)(1-indenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidene(cyclopentadienyl)(1-(2-methylindenyl)) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidene(cyclopentadienyl)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidene(cyclopentadienyl)(9-{2-methylfluorenyl)) zirconium dichloride; 09/299.539 Page 41

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylidenebis(1-indenyl) zirconium dichloride;

- 1-trimethylsiloxyethyl-ethylidenebis(cyclopentadienyl) zirconium dichlonde;
- 1-trimethylsiloxyethyl-ethylidene-1-(cyclopentadienyl)-2-(1-indenyl) zirconium dichloride;
- 1-trimethylsiloxyethyl-ethylidene-1-(cyclopentadienyl)-2-(1-(2-methyl-indenyl)) zirconium dichloride:
- 1-trimethylsiloxyethyl-ethylidene-1-(cyclopentadienyl)-2-(9-fluorenyl) zirconium dichloride;
- 1-trimethylsiloxyethyl-ethylidene-1-(cyclopentadienyl)-2-(9-(2-methyl-fluorenyl)) zirconium dichloride:
- 1-trimethylsiloxyethyl-ethylidenebis(1-indenyl) zirconium dichloride;
- 1-trimethylsiloxypropyl-ethylidenebis(cyclopentadienyl) zirconium dichloride;
- 1-trimethylsiloxypropyl-ethylidene-1-(cyclopentadienyl)-2-(1-indenyl) zirconium dichloride;
- 1-trimethylsiloxypropyl-ethylidene-1-(cyclopentadienyl)-2-(1-(2-methyl-indenyl)) zirconium dichloride;
- 1-trimethylsiloxypropyl-ethylidene-1-(cyclopentadienyl)-2-(9-fluorenyl) zirconium dichloride; 1-trimethylsiloxypropyl-ethylidene-1-(cyclopentadienyl)-2-(9-(2-methyl-fluorenyl)) zirconium dichloride;
- 1-trimethylsiloxypropyl-ethylidenebis(1-indenyl) zirconium dichloride;
- 1-trimethylsiloxy-methoxy-ethylidenebis(cyclopentadienyl) zirconium dichloride;
- 1-trimethylsiloxy-methoxy-ethylidene-1-(cyclopentadienyl)-2-(1-indenyl) zirconium dichloride;
- 1-trimethylsiloxy-methoxy-ethylidene-1-(cyclopentadienyl)-2-(1-(2-methyl-indenyl)) zirconium dichloride;
- 1-trimethylsiloxy-methoxy-ethylidene-1-(cyclopentadienyl)-2-(9-fluorenyl) zirconium dichloride:
- 1-trimethylsiloxy-methoxy-ethylidene-1-(cyclopentadienyl)-2-(9-(2-methyl-fluorenyl)) zirconium dichloride;
- 1-trimethylsiloxy-ethoxy-ethylidenebis(cyclopentadienyl) zirconium dichlonde;
- 1-trimethylsiloxy-ethoxy-ethylidene-1-(cyclopentadienyl)-2-(1-indenyl) zirconium dichlonde;
- 1-trimethylsiloxy-ethoxy-ethylidene-1-(cyclopentadienyl)-2-(1-(2-methyl-indenyl)) zirconium dichloride:
- 1-trimethylsiloxy-ethoxy-ethylidene-1-(cyclopentadienyt)-2-(9-fluorenyt) zirconium dichlonde; 1-trimethylsiloxy-ethoxy-ethylidene-1-(cyclopentadienyt)-2-(9-(2-methyl-fluorenyt)) zirconium

dichloride;

- 1-trimethylsiloxy-ethyl-(dimethyl)silyl ethylidenebis(cyclopentadienyl) zirconium dichlonde;
- 1-trimethylsiloxy-ethyl-(dimethyl)silyl ethylidene-1-(cyclopentadienyl)-2-(1-indenyl) zirconium dichloride;
- 1-trimethylsiloxy-ethyl-(dimethyl)silyl ethylidene-1-(cyclopentadienyl)-2-(1-(2-methyl-indenyl)) zirconium dichloride;
- 1-trimethylsiloxy-ethyl-(dimethyl)silyl ethylidene-1-(cyclopentadienyl)-2-(9-fluorenyl) zirconium dichloride;
- 1-trimethylsiloxy-ethyl-(dimethyl)silyl ethylidene-1-(cyclopentadienyl)-2-(9-(2-methylfluorenyl)) zirconium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(cylopentadienyl) titanium dichloride; trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(tetramethylcylopentadienyl) titanium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-indenyl) titanium dichloride; trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride:

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) titanium dichloride; trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-(2-metthylbenzoindenyl) titanium dichloride;

(dimethyl)silandiyl-(tertbutylamido)(3-(trimethylsiloxyethylcylopentadienyl) titanium dichloride;

(dimethyl)silandiyl-(tertbutylamido)(1-(3-trimethylsiloxyethylindenyl) titanium dichloride;

(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(cylopentadienyl) titanium dichloride; (dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(tetramethylcylopentadienyl) titanium dichloride;

(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(1-indenyl) titanium dichloride; (dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(9-fluorenyl) titanium dichloride; (dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(1-(2-methylbenzoindenyl) titanium dichloride:

trimethylsiloxypropyl(methyl)silandiyl(tertbutylamido)-(cylopentadienyl) titanium dichloride; trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride:

trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(1-inderyl) titanium dichloride; trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride:

trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) titanium dichloride; trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride:

trimethylsiloxypropyl(methyl)silandiyl(tertbutylamido)-(1-(2-methylbenzoindenyl) titanium dichloride;

(dimethyl)silandiyl-(tertbutylamido)(3-(trimethylsiloxypropylcylopentadienyl) titanium dichloride;

(dimethyl)silandiyl-(tertbutylamido)(1-(3-trimethylsiloxypropylindenyl) titanium dichloride:

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(cylopentadienyl) titanium dichloride:

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(letramethylcylopentadienyl) titanium dichloride:

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(1-indenyl) titanium dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(9-fluorenyl) titanium dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(1-(2-methylbenzoindenyl) titanium dichloride:

trimethylsiloxy-methoxy (methyl)silandiyl-(tertbutylamido)(cylopentadienyl) titanium dichloride:

trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(1-indenyl) titanium dichloride;

trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride:

trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) titanium dichloride; trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride:

trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(cylopentadienyl) tilanium dichloride; trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride:

trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(1-indenyl) titanium dichloride; trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride:

trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) titanium dichlonde; trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl(tertbutylamido)-(cylopentadienyl) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-

(tertbutylamido)(tetramethylcyclopentadienyl) fitanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(1-indenyl) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) titanium dichloride:

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride:

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(cylopentadienyl) titanium dichloride; trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride:

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(1-indenyl) titanium dichloride; trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(9-fluorenyl) titanium dichloride; trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(cylopentadienyl) titanium dichloride; trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxypropyl-(methyl)methylene(terlbutylamido)(indenyl) titanium dichloride; trimethylsiloxypropyl-(methyl)methylene(terlbutylamido)(2-methyl-indenyl) titanium dichloride;

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(9-fluorenyl) titanium dichloride; trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(2-methyl-fluorenyl) titanium dichloride;

trimethylsiloxy-methoxy(methyl)methylene(tertbutylamido)(cylopentadienyl) titanium dichloride;

trimethylsiloxy-methoxy(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxy-methoxy(methyl)methylen(tertbutylamido)(1-indenyl) titanium dichloride; trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(1-(2-methyl-indenyl)) titanium dichloride;

trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(9-fluorenyf) titanium dichloride; trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(9-{2-methyl-fluorenyf)) titanium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylene(tertbutylamido)(cylopentadienyl) titanium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylen(lerlbutylamido)(1-indenyl) titanium dichloride; trimethylsiloxy-ethoxy-(methyl)methylen(terlbutylamido)(1-(2-methyl-indenyll) titanium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(9-fluorenyl) titanium dichloride; trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride; trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(cylopentadienyl) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl (methyl) methylene (tertbutylamido) (tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methilene(tertbutylamido)(1-indenyl) titanium dichloride:

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methilene(tertbutylamido)(1-(2-methyl-indenyl)) tilanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methilene(tertbutylamido)(9-fluorenyl) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methilene(tertbutylamido)(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(lertbutylamido)(cylopentadienyl) zirconium dichloride; trimethylsiloxyethyl(methyl)silandiyl-(lertbutylamido)(letramethylcylopentadienyl) zirconium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-indenyl) zirconnium dichloride; trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) zirconium dichloride; trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxyethyl(methyl)silandiyl-(tertbutylamido)(1-(2-metthylbenzoindenyl) zirconnium dichloride;

(dimethyl)silandiyl-(tertbutylamido)(3-(trimethylsiloxyethylcylopentadienyl) zirconium dichloride;

(dimethyl)silandiyl-(tertbutylamido)(1-(3-trimethylsiloxyethylindenyl) zirconium dichloride;

(dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(cylopentadienyl) zirconium dichloride; (dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(tetramethylcylopentadienyl) zirconium dichloride;

(dimethyf)silandiyl-(2-trimethylsiloxyethylamido)(1-indenyf) zirconium dichloride; (dimethyf)silandiyl-(2-trimethylsiloxyethylamido)(9-fluorenyf) zirconium dichloride; (dimethyl)silandiyl-(2-trimethylsiloxyethylamido)(1-(2-methylbenzoindenyl) zirconium dichloride:

trimethylsiloxypropyl(methyl)silandiyl(tertbutylamido)-(cylopentadienyl) zirconium dichloride; trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride:

trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(1-indenyl) zirconium dichloride; trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxypropyl(methyl)silandiyl-(lertbutylamido)(9-fluorenyl) zirconium dichlonde; trimethylsiloxypropyl(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichlonde;

trimethylsiloxypropyl(methyl)silandiyl(tertbutylamido)-(1-(2-methylbenzoindenyl) zirconium dichloride:

(dimethyl)silandiyl-(tertbutylamido)(3-(trimethylsiloxypropylcylopentadienyl) zirconium dichloride:

(dimethyl)silandiyl-(tertbutylamido)(1-(3-trimethylsiloxypropylindenyl) zirconium dichloride:

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(cylopentadienyl) zirconium dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(tetramethylcylopentadienyl) zirconium dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(1-indenyl) zirconium dichloride;

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(9-fluorenyl) zirconium dichloride:

(dimethyl)silandiyl-(3-trimethylsiloxypropylamido)(1-(2-methylbenzoindenyl) zirconium dichloride;

trimethylsiloxy-methoxy (methyl)silandiyl-(tertbutylamido)(cylopentadienyl) zirconium dichloride:

trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsitoxy-methoxy(methyl)silandiyl-(tertbutylamido)(1-indenyl) zirconium dichloride; trimethylsitoxy-methoxy(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) zirconium dichloride; trimethylsiloxy-methoxy(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(cylopentadienyl) zirconium dichloride;

trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(1-indenyl) zirconium dichloride; trimethylsiloxy-ethoxy(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-ethoxy(methyl)silandiyl-(lertbutylamido)(9-fluorenyl) zirconium dichloride; trimethylsiloxy-ethoxy(methyl)silandiyl-(lertbutylamido)(9-{2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl(tertbutylamido)-(cylopentadienyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-

(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

timethyfsiloxy-ethyf-(dimethyf)silyf-(methyf)silandiyf-(tertbutyfamido)(1-indenyf) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)silandiyl-(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxyethyl-(methyl)methylene(leributylamido)(cylopentadienyl) zirconium dichloride; trimethylsiloxyethyl-(methyl)methylene(leributylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(1-indenyl) zirconium dichloride;

trimethylsiloxyethyl-(methyl)methylene(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxyethyl-(methyl)methylene(lertbutylamido)(9-fluorenyl) zirconium dichloride; trimethylsiloxyethyl-(methyl)methylene(lertbutylamido)(9-{2-methyl-fluorenyl)) zirconium dichloride:

trimethylsiloxypropyl-(methyl)methylene(terlbutylamido)(cylopentadienyl) zirconium dichloride:

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxypropyl-(methyl)methylene(teributylamido)(indenyl) zirconium dichloride; trimethylsiloxypropyl-(methyl)methylene(teributylamido)(2-methyl-indenyl) zirconium dichloride;

trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(9-fluorenyf) zirconium dichloride; trimethylsiloxypropyl-(methyl)methylene(tertbutylamido)(2-methyl-fluorenyf) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylene(tertbutylamido)(cylopentadienyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylene(tertbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylen(tertbutylamido)(1-indenyl), zirconium dichloride; trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride;

trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(9-fluorenyl) zirconium dichloride; trimethylsiloxy-methoxy(methyl)methylen(-tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylene(terlbutylamido)(cylopentadienyl) zirconium dichloride:

trimethylsiloxy-ethoxy-(methyl)methylene(terlbutylamido)(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(1-indenyl) zirconium dichloride; trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichloride; trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(9-fluorenyl) zirconium dichloride; trimethylsiloxy-ethoxy-(methyl)methylen(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methylene(tertbutylamido)(cylopentadienyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl (methyl) methylene (tertbutylamido)

(tetramethylcyclopentadienyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methilene(tertbutylamido)(1-indenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methilene(tertbutylamido)(1-(2-methyl-indenyl)) zirconium dichlonde;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methilene(tertbutylamido)(9-fluorenyl) zirconium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl)methilene(tertbutylamido)(9-(2-methyl-fluorenyl)) zirconium dichloride;

trimethytsiloxyethyl(methyl) silandiyl-oxo(cylopentadienyl) titanium dichloride; trimethylsiloxyethyl(methyl) silandiyl-oxo-(tetramethylcyclopentadienyl) titanium dichloride; trimethylsiloxyethyl(methyl) silandiyl-oxo(1-irdenyl) titanium dichloride; trimethylsiloxyethyl(methyl) silandiyl-oxo(9-fluorenyl) titanium dichloride; trimethylsiloxyethyl(methyl) silandiyl-oxo(9-fluorenyl) titanium dichloride; trimethylsiloxyethyl(methyl) silandiyl-oxo(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxypropyl(methyl) silandiyl-oxo(cylopentadienyl) titanium dichloride; trimethylsiloxypropyl(methyl) silandiyl-oxo(tetramethylcyclopentadienyl) titanium dichloride; trimethylsiloxypropyl(methyl) silandiyl-oxo(1-indenyl) titanium dichloride; trimethylsiloxypropyl(methyl) silandiyl-oxo(1-(2-methyl-indenyl)) titanium dichloride; trimethylsiloxypropyl(methyl) silandiyl-oxo(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxy-methoxy(methyl) silandiyl- oxo(cylopentadienyl) titanium dichloride; trimethylsiloxy-methoxy(methyl) silandiyl-oxo(tetramethylcyclopentadienyl) titanium dichloride;

trimethylsiloxy-methoxy(methyl) silandiyl-oxo(1-indenyl) titanium dichloride;

09/299,539 Page 51

trimethylsiloxy-methoxy(methyl) silandiyl-oxo(1-(2-methyl-indenyl)) titanium dichloride; trimethylsiloxy-methoxy(methyl) silandiyl-oxo(9-fluorenyl) titanium dichloride; trimethylsiloxy-methoxy(methyl) silandiyl-oxo(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(cylopentadienyl) titanium dichloride; trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(tetramethylcyclopentadienyl) titanium dichloride; trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(1-indenyl) titanium dichloride; trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(9-fluorenyl) titanium dichloride; trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(9-fluorenyl) titanium dichloride; trimethylsiloxy-ethoxy(methyl) silandiyl-oxo(9-(2-methyl-fluorenyl)) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-oxo(cylopentadienyl) titanium dichloride;

trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-oxo(tetramethylcyclopentadienyl) titanium dichloride;

trimethytsiloxy-ethyl-(dimethyt)silyl-(methyt) silandiyl-oxo(1-indenyt) titanium dichloride; trimethytsiloxy-ethyl-(dimethyt)silyl-(methyt) silandiyl-oxo(1-(2-methyl-indenyt)) titanium dichloride:

trimethytsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-oxo(fluorenyl) titanium dichloride; and trimethylsiloxy-ethyl-(dimethyl)silyl-(methyl) silandiyl-oxo(9-methylfluorenyl) titanium dichloride:

09/299.539 Page 52

Claim 29. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein, prior to being reacted with the alumoxane and prior to supporting the metallocene compound, the inorganic support is not functionalized.

- Claim 30. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein the supported metallocene compound is defined by the formula II or the formula III.
- Claim 31. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein each  $R^{\rm I}$  in the formula I is a divalent or aromatic hydrocarbon group containing from 1 to 20 carbon atoms and optionally containing boron.
- Claim 32. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein each  $R^{\rm I}$  in the formula I is a divalent or aromatic hydrocarbon group containing from 1 to 20 carbon atoms, wherein each  $R^{\rm I}$  in the formula I does not contain any boron.
- Claim 33. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein m is equal to 1.
- Claim 34. (previously presented) The heterogeneous catalytic system claimed in Claim 30, wherein m is equal to 1.
- Claim 35. (previously presented) The heterogeneous catalytic system claimed in Claim 31, wherein m is equal to 1.

09/299.539 Page 53

Claim 36. (previously presented) The heterogeneous catalytic system claimed in Claim 32, wherein m is equal to 1.

- Claim 37. (previously presented) The heterogeneous catalytic system claimed in Claim 21, wherein the supported metallocene compound is selected from the group consisting of:
- [(3-trimethylsiloxypropyl)methylsilylen] bis indenyl zirconium dichloride;
- [(1,1-dimethyl-1-sila-4-trimethylsiloxybutyl) cyclopentadienyl] cyclopentadienyl zirconium dichloride;
- [1-(3-trimethylsiloxypropyl)indenyl] cyclopentadienyl zirconium dichloride;
- dimethylsilylen [3-(2-trimethylsiloxyethyl)cyclopentadienyl]
  indenyl zirconium dichloride;
- dimethylsilylen [3-(2-trimethylsiloxyethyl)cyclopentadienyl]
  cyclopentadienyl zirconium dichloride;
- [1-(2-trimethylsiloxyethyl)indenyl] cyclopentadienyl zirconium dichloride:
- [1-(2-trimethylsiloxyethyl)indenyl] pentamethylcyclopentadienyl
- (3-trimethylsiloxypropycyclopentadienyl)(cyclopentadienyl)
- zirconium dichloride;
  (3-trimethylsiloxypropyl)methylsilylen]bis(1-indenyl) zirconium
  dichloride;
- [(1,1-dimethyl-1-sila-4-trimethylsiloxybutyl)-cyclopentadienyl] cyclopentadienyl zirconium dichloride;
- dimethylsilylen(trimethylsiloxyethyl-3-cyclopentadienyl)(1-indenyl) zirconium dichloride; and
- dimethylsilylen(trimethylsiloxyethyl-3-cyclopentadienyl)
  (cyclopentadienyl) zirconium dichloride.
- Claim 38. (withdrawn) A process for polymerization of alpha olefins in a slurry or in a gas phase, wherein the polymerization is catalyzed by the heterogeneous catalyst system of Claim 21.

09/299,539 Page 54

Claim 39. (withdrawn) A process for polymerizing a monomer or a mixture of a monomer and a comonomer, wherein the process comprises: contacting the heterogeneous catalytic system claimed in Claim 21 with the monomer or the mixture to polymerize the monomer or the mixture.